

The increasingly important aspect of speech quality in interior environment of buildings has led NCOTM to develop a comprehensive range of acoustical panel. From within our range of panels, it is possible to find a solution to virtually any acoustical interior situation. Particularly where aesthetics are as important as acoustic performance, architects and designers will find the range of veneers or paint finishes particularly attractive.

NCO[™] TimberAcoustics offers high–performance, aesthetic and acoustical solutions, from wall to



ceiling. The panel is being installed to effectively control noise in conference rooms, theatres, studio, restaurants, libraries, hotels and shopping centres.

TimberAcoustics panel has been tested in accordance with ASTM E1050 "Standard Test Method for Impedance and Absorption of Acoustical Materials using a tube, two microphones and a digital frequency analysis system"





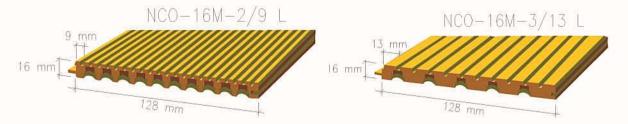
CHARACTERISTICS

	STANDARD	OPTIONAL						
SUBSTRATE	MDF	MDF Particle Board						
THICKNESS	12 mm	10 mm		18 mm				
PANEL FINISH	Veneer	Primer Pain	t	Wood Grain Pape				
RANGE OF VENEER	OF VENEER Beech		Maple	Teak				

Note: Please consult NCO for special finishes.



NCO[™] TimberAcoustics Wood Strip has been designed with double-cut perforations for maximum sound absorption ability.



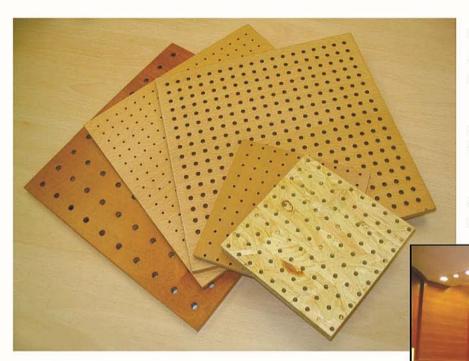
Performance (ASTM E1050):

Air Gap							Fre	quen	cy (1/:	3 Octa	ive)						
(mm)	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k
25	0.00	0.04	0.07	0.11	0.17	0.27	0.42	0.62	0.87	0.99	0.86	0.70	0.65	0.55	0.53	0.45	0.50
38	0.01	0.04	0.11	0.19	0.31	0.49	0.72	0.91	0.99	0.88	0.7	0.57	0.52	0.46	0.48	0.47	0.49
50	0.01	0.07	0.16	0.28	0.46	0.68	0.89	0.99	0.94	0.79	0.61	0.5	0.45	0.42	0.43	0.44	0.4
25+Infill*	0.06	0.08	0.1	0.14	0.2	0.28	0.4	0.6	0.82	0.96	0.93	0.84	0.75	0.68	0.62	0.58	0.59
38+Infill*	0.09	0.14	0.2	0.28	0.41	0.59	0.8	0.93	0.95	0.88	0.77	0.72	0.73	0.62	0.58	0.54	0.58
50+Infill*	0.18	0.24	0.35	0.46	0.67	0.86	0.93	0.93	0.87	0.8	0.73	0.68	0.67	0.59	0.56	0.54	0.59





NCO[™] TimberAcoustics Perforated Wood Panel has been tested for different holes spacing and hole diameter for obtaining the optimal frequencies in sound absorption.

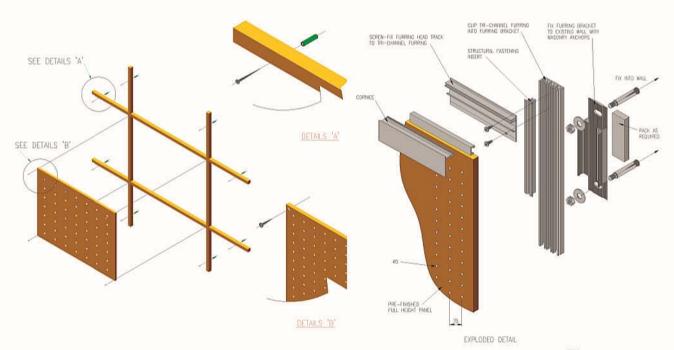


Attractive surface with high acoustic absorption ability

A wide choice of veneer finishes

A wide variety of holes spacing and diameters

Possible Fixing Methods are available by NCO™:



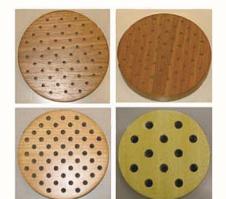
Conventional Fixing using Wood Batten

New Fixing using Futurewall™ Wall System





Perforated Wood Panels



		Hole Diameter in mm								
12 16 24	3	5	8							
	12	4.9%	13.6%	5						
	16	1.9%	7.7%	-						
	24	>=	3.4%	8.7%						
	32	£ .	1.9%	4.9%						

Performance (ASTM E1050):

Air Gap						Fre	equen	cy (1/3	3 Octa	ve)					
(mm)	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k
25	0.00	0.07	0.05	0.04	0.07	0.12	0.16	0.24	0.35	0.50	0.72	0.91	0.92	0.79	0.66
38	0.00	0.10	0.02	0.07	0.11	0.18	0.27	0.40	0.56	0.74	0.90	0.93	0.83	0.68	0.57
50	0.00	0.00	0.00	0.13	0.18	0.29	0.40	0.56	0.72	0.86	0.94	0.88	0.76	0.62	0.53
25+Infill*	0.00	0.02	0.06	0.07	0.12	0.18	0.24	0.34	0.48	0.62	0.77	0.87	0.84	0.75	0.67
38+Infill*	0.07	0.11	0.06	0.15	0.21	0.30	0.41	0.54	0.68	0.78	0.84	0.82	0.76	0.67	0.62
50+Infill*	0.00	0.00	0.11	0.26	0.26	0.42	0.54	0.66	0.76	0.80	0.80	0.78	0.71	0.66	0.62

Nood Strip with groove



	Gı	oove Width in m	m
	3	4	8
10	il = :	-	8.7%
13	4.9%	5.2%	-
28		3.4%	H













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